

Missouri Assessment Program
Spring 2006

Mathematics

Released Items

Grade 3

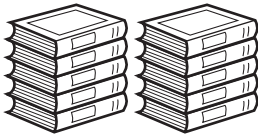
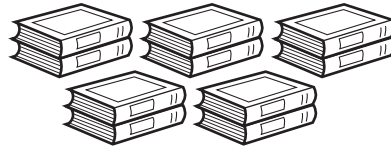
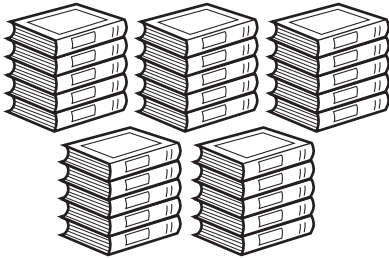
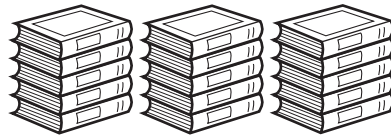
The McGraw-Hill Companies



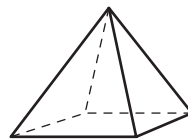
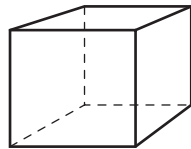
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1

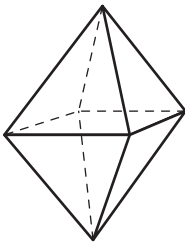
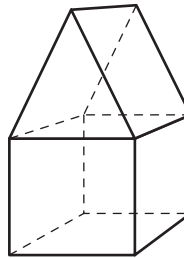
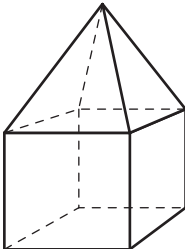
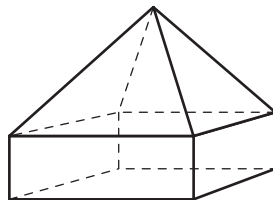
Mr. Barnes has 10 books. He puts them into 5 equal stacks. Which of these shows the stacks of books?

☐☐☐☐**2**

Study the shapes below.



Which figure is made by combining the 2 shapes?

☐☐☐☐

- 3** In March it rained 6 inches. In April it rained 9 inches. What is the change in the amount of rain from March to April?

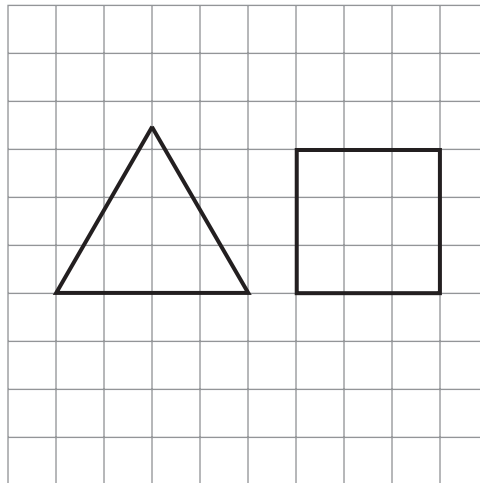
- ☐ decreased by 3 inches
- ☐ decreased by 4 inches
- ☐ increased by 3 inches
- ☐ increased by 4 inches

4



Use the inch side of your ruler to help you solve this problem.

Study the shapes below.



Which of these statements is true?

- ☐ Each shape has 4 straight sides.
- ☐ Each shape has square corners.
- ☐ Each shape has equal sides.
- ☐ Each shape has only 3 corners.

Go On ►

- 5** Jason is 14 years old. Devon is 5 years younger than Jason. Which number sentence can be used to find how old Devon is?

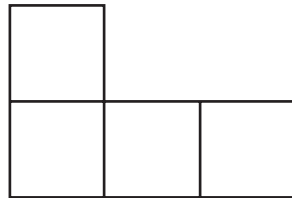
☐ $14 + \square = 5$

☐ $5 + 14 = \square$

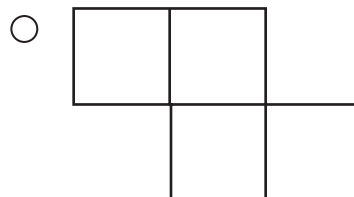
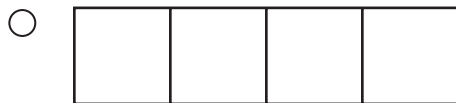
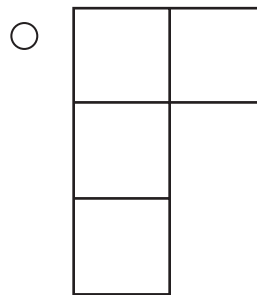
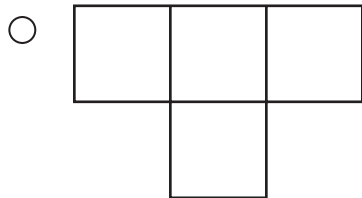
☐ $\square - 5 = 14$

☐ $14 - 5 = \square$

- 6** Jan made the figure below using square tiles.



Which of these figures is congruent to the shape Jan made?



- 9 Study the table below. The table shows the number of minutes the students from each grade study after school.

STUDY AFTER SCHOOL

Grade	3	4	5	6
Number of Minutes	15	25	35	

Complete the table by continuing the pattern to show the number of minutes the students from Grade 6 study after school.

On the lines below, explain the **rule** used in the pattern.

- 10 Study the number pattern below.

4, 6, 9, 11, 14, ?

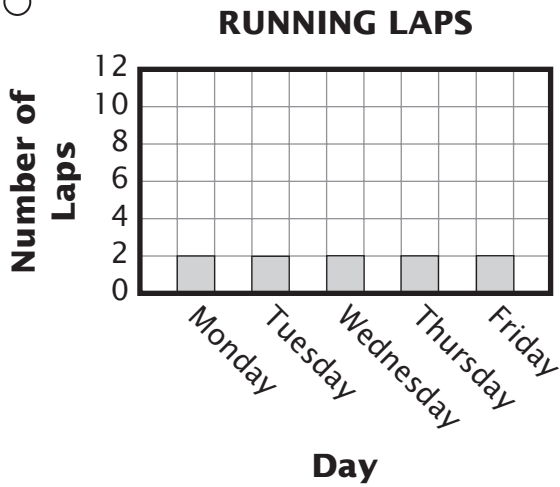
What is the next number in the pattern?

- ☐ 15
☐ 16
☐ 17
☐ 18

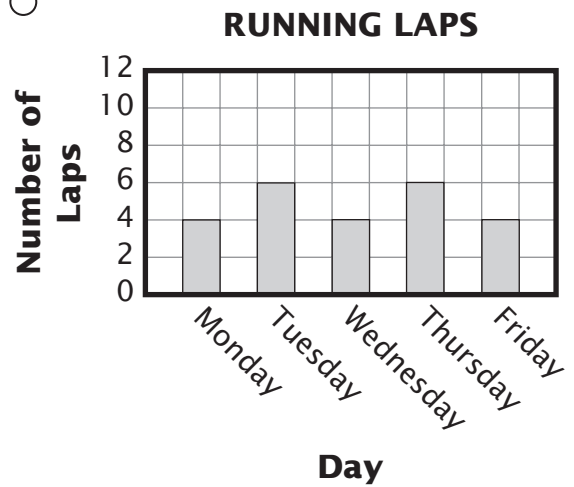
11

Each day Tony runs 2 more laps around the track than the day before. Which graph shows Tony's running pattern for the week?

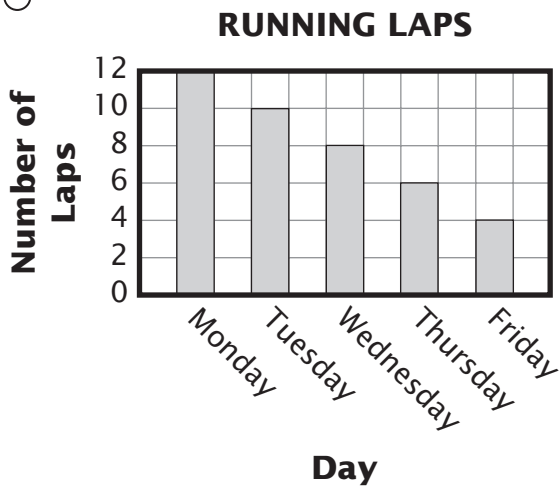
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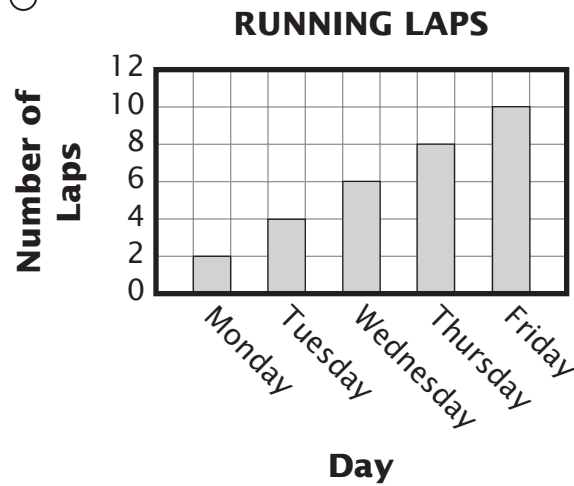
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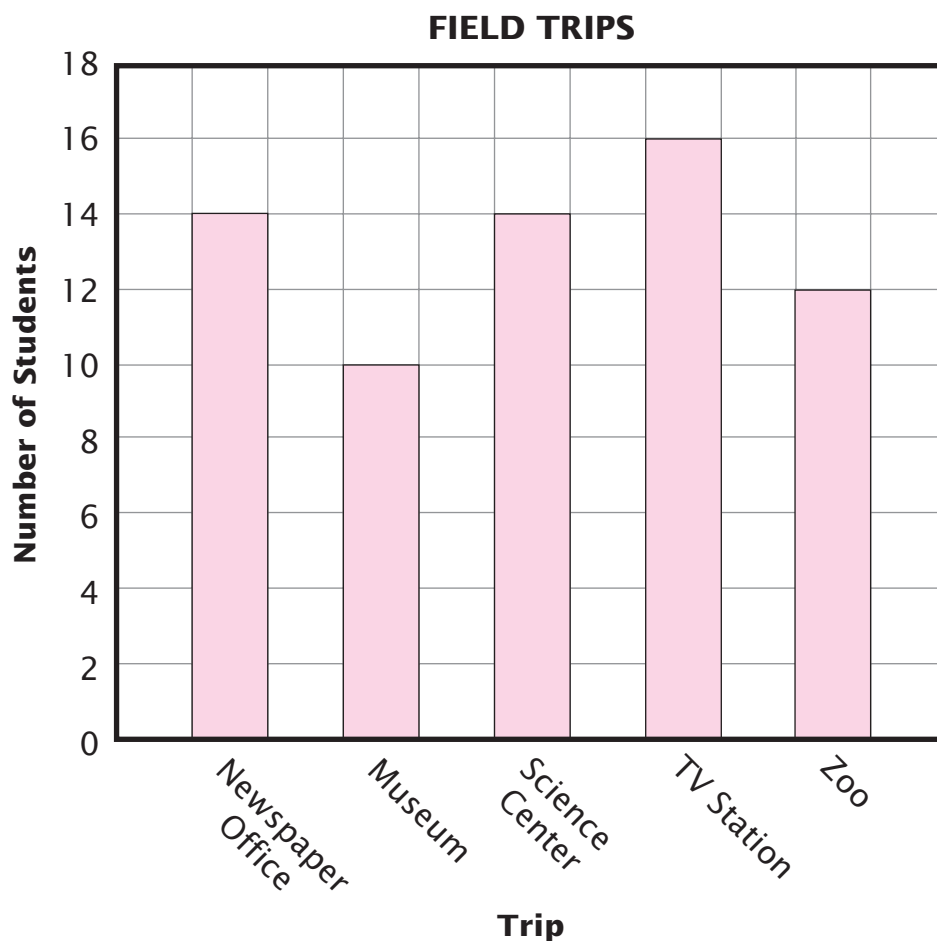


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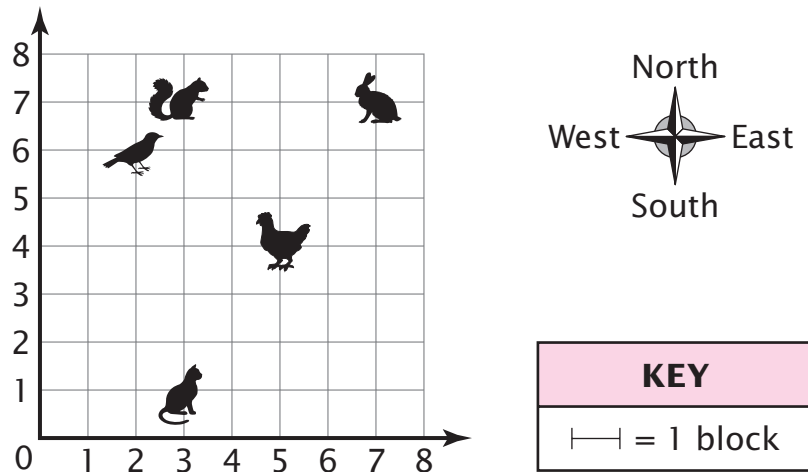
- 12 The bar graph below shows students' favorite field trips this year.




From the information in the graph, which statement is true?

- ☐ The newspaper office was chosen by most students.
- ☐ The zoo was chosen by fewer students than the museum.
- ☐ The TV station was chosen by twice as many students as the zoo.
- ☐ The newspaper office and science center were chosen by the same number of students.

13 Study the grid below.

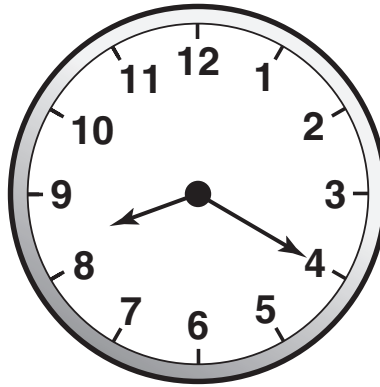


Starting at the , which animal can be found 3 blocks to the north and 2 blocks to the west?



Go On ►

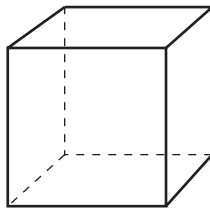
- 14** The bus will leave at the time shown on the clock below.



What time will the bus leave?

- ☐ 3:40
- ☐ 4:40
- ☐ 8:20
- ☐ 9:20

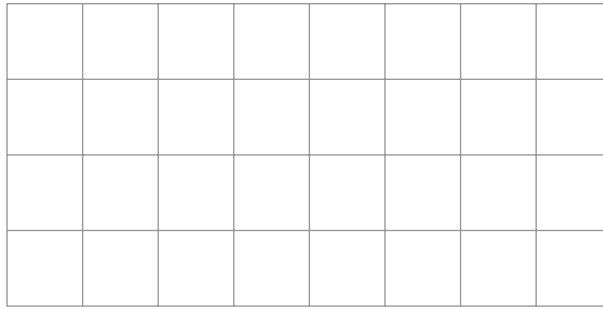
- 15** Study the cube below.



How many square faces does a cube have?

- ☐ 3
- ☐ 4
- ☐ 5
- ☐ 6

- 16** Study the figure below.



Draw lines on the figure to divide it into 4 equal parts.

Draw an X on $\frac{1}{4}$ of the figure.

- 17** Last year, there were 35 students in the third-grade class. This year there are 24 students. What is the change in the number of students from last year to this year?

- ☐ decreased by 9 students
- ☐ increased by 9 students
- ☐ decreased by 11 students
- ☐ increased by 11 students

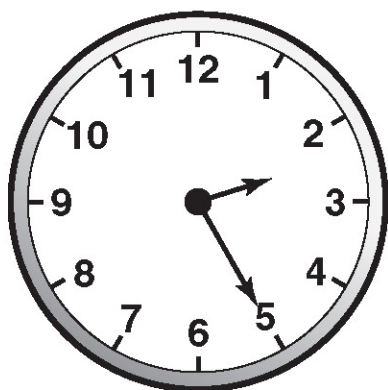
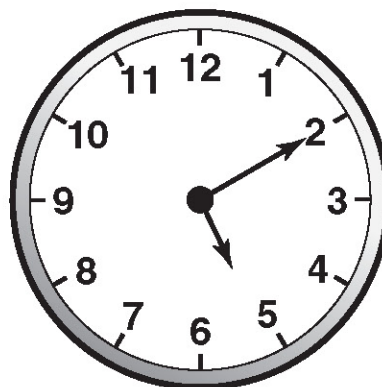
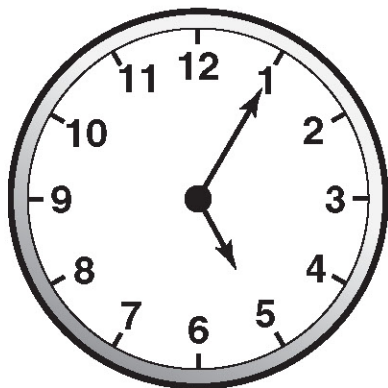
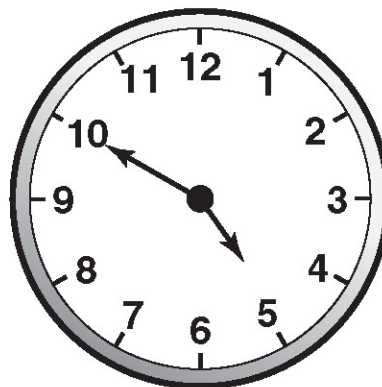
- 18** Pedro buys 15 oranges at the store. Which of these is the best estimate for the weight of the oranges?

- ☐ 5 tons
- ☐ 5 grams
- ☐ 5 ounces
- ☐ 5 pounds

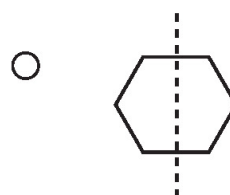
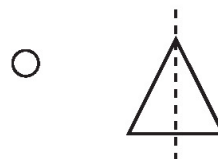
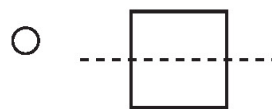
Go On ►

20

Jack's dinner will be ready at 5:10. Which of these clocks shows the time that Jack's dinner will be ready?

☐☐☐☐

- 22 Which figure does *not* show a line of symmetry?



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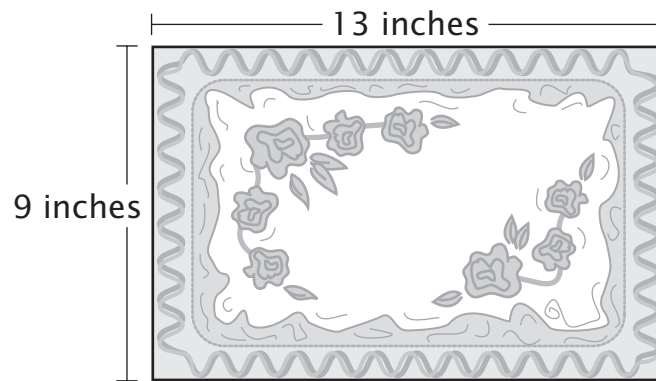
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DO NOT WRITE HERE

Go On ►

- 23** Study the cake shown below.

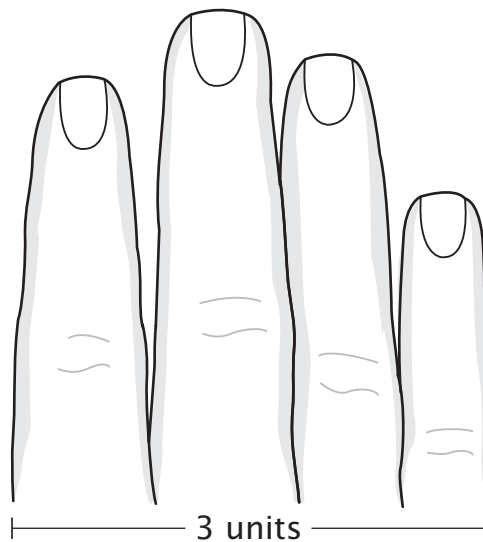


What is the perimeter of the cake? In the box below, show your work and write your answer on the line.

_____ inches

24

Ms. Berry knows that her fingers measure about 3 units, as shown below.



Ms. Berry wants to find a stick about 6 units long. Which of these is about 6 units long?

- ☐ A long, thin, slightly irregular stick, approximately 10 units long.
- ☐ A long, thin, slightly irregular stick, approximately 10 units long.
- ☐ A medium-length, thin, slightly irregular stick, approximately 3 units long.
- ☐ A short, thin, slightly irregular stick, approximately 1 unit long.

Go On ►

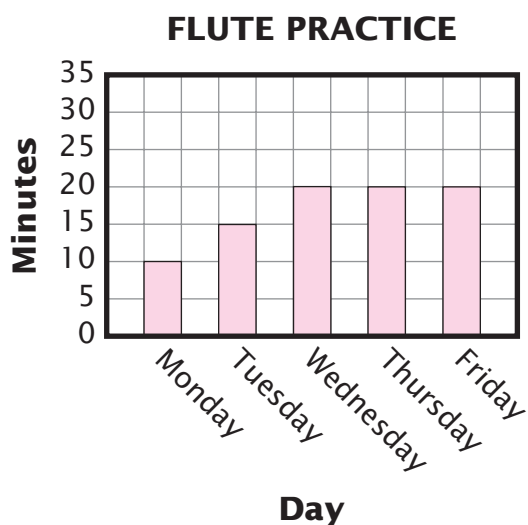
25 The table below shows the amount of time Kira practices the flute each day. Study the table. Then answer the question on Page 17.

FLUTE PRACTICE

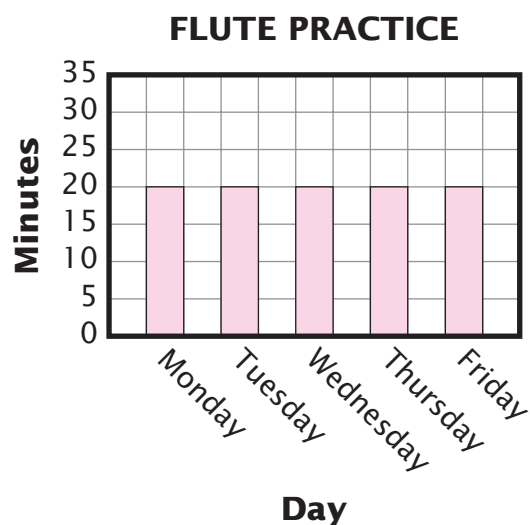
Day	Minutes
Monday	10
Tuesday	15
Wednesday	20
Thursday	25
Friday	30

Which bar graph shows the information in the table?

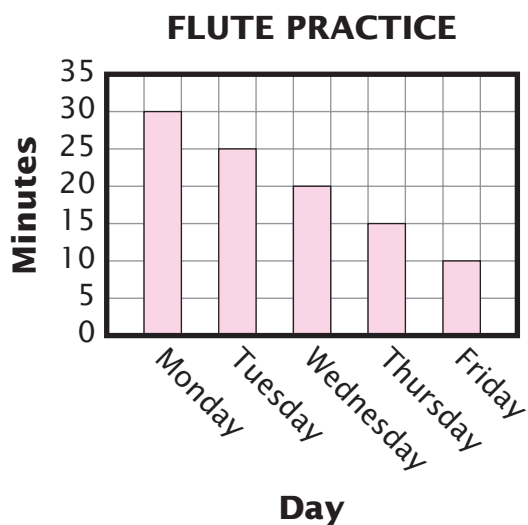
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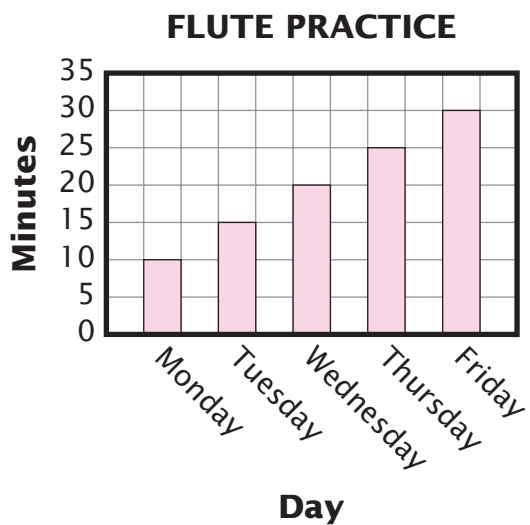
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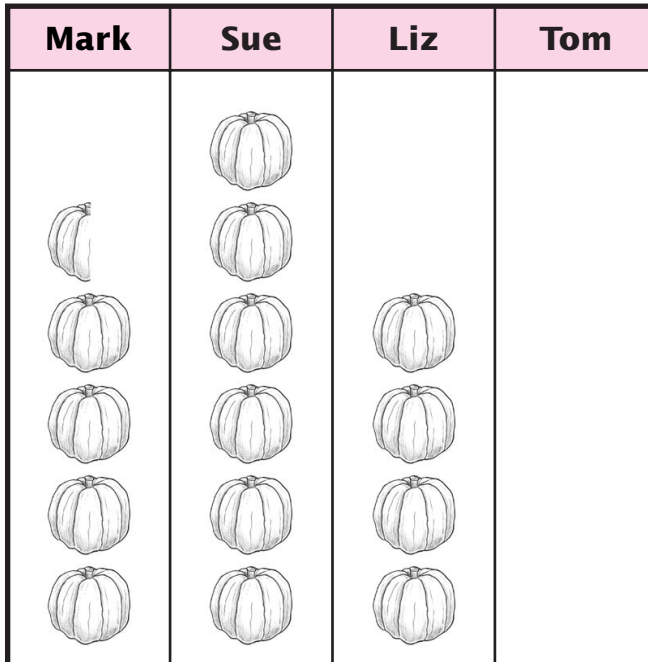
Go On ►


26 Amy lives in a neighborhood with lots of pets. What would be the **best** way for Amy to find the number of pets that live in her neighborhood?

- ☐ sit outside and count the pets she sees
- ☐ ask her classmates how many pets they have
- ☐ ask all of her neighbors how many pets they own
- ☐ ask the pet store owner how many pets were sold

27 Ms. Wilson's class visited a pumpkin patch. Each student got to select 1 pumpkin. The picture graph below shows the weight of the pumpkins three students picked.

WEIGHT OF PUMPKINS



KEY	
	= 2 pounds

How much does Mark's pumpkin weigh?

_____ pounds

Tom's pumpkin weighs 7 pounds. Draw the pumpkins on the picture graph to show the weight of Tom's pumpkin.

STOP 